



# 2018 SAO Astronomy Intern Symposium

Thursday August 9, 10:00am-4:00pm

Phillips Auditorium, Harvard-Smithsonian Center for Astrophysics

All are welcome to attend all or any portion of this event

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- 10:00am **Welcome**, preceded by refreshments at 9:45am  
– **Session 1: Evolved Stars and Stellar Systems** –
- 10:10am **The Variability of Hundreds of Extragalactic XRB Systems**  
Tenley Hutchinson-Smith (Spelman College)  
*Advisors: Drs. Rosanne Di Stefano & Daniel d’Orazio*
- 10:30am **The Effects of Primordial Binary Fraction on Globular Cluster Evolution**  
Thomas Boudreaux (High Point University)  
*Advisor: Dr. Idan Ginsburg*
- 10:50am **Characterizing a Broad Sample of Variable Stars from Lightcurves and SDSS Spectroscopy**  
Sierra Dodd (University of Washington)  
*Advisor: Dr. Paul Green & Benjamin Roulston*
- 11:10am **Break**  
– **Session 2: Young Stars, Part 1** –
- 11:25am **Taking a Quantitative GLIMPSE of Star Formation in the outer Milky Way**  
Osase Omoruyi (Yale University)  
*Advisors: Drs. Elaine Winston and Joseph Hora*
- 11:45am **Mining Big Data Across the Entire IR Sky: Improved Source Classification through Machine Learning**  
Jacqueline Blaum (Iowa State University)  
*Advisor: Drs. Rafael Martínez-Galarza & Matthew Ashby*
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- 12:05pm **Lunch Break**
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- **Session 3: Young stars, part 2** –
- 1:40pm **Comparing Molecular Line Tracers in Outflows Generated by Massive Star Formation**  
Courtney C. Bishop (College of William & Mary)  
*Advisor: Drs. Anna Rosen & Alyssa Goodman*
- 2:00pm **Characterizing the Debris Disk around HD 170773 with Resolved Millimeter Observations**  
Aldo G. Sepulveda (University of Texas at San Antonio)  
*Advisors: Drs. Luca Matrà, Karin Öberg, & David Wilner*
- 2:20pm **The Chemistry of Star-Forming Regions IRAS 16293–2422 and G35.20–0.7N Using the SMA**  
Ivalu Barlach Christensen (Lund University)  
*Advisor: Dr. Nimesh Patel*
- 2:40pm **Break**  
– **Session 4: The Extragalactic Sky** –
- 3:00pm **Constraining the Massive Star Properties of Distant Galaxies**  
Evan Haze Nunez (California State Polytechnic University, Pomona)  
*Advisors: Drs. Joel Leja & Charlie Conroy*
- 3:15pm **Properties of the Intracluster Medium in an Intermediate-Redshift Planck-Detected Merging Galaxy Cluster**  
Megan Masterson (Case Western Reserve University)  
*Advisors: Drs. Yuanyuan Su & Felipe Andrade-Santos*
- 3:35pm **The Mysterious Bubble in Cygnus A**  
Amalya Johnson (Columbia University)  
*Advisors: Drs. Paul Nulsen & Bradford Snios*
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